Nearly every weekend from mid-February to mid-No-vember, 100,000 die-hard fans get in their cars and crawl through gridlock to watch their favorite NASCAR drivers bump and grind their way through a 43-car field at 180mph. Some weeks, these loyal fans, who travel to racetracks from New Hampi's been called the fastest growing sport in America. make up the largest gathering of human beings shire to California and 21 stops in between,

track in t-shirts sporting the numbers and likenesses of their favorite NASCAR drivers. recognizable names: Jeff Gordon, Dale Earnhardt Jr., and Dale Jarrett. In the infield and just outside the track's and far flew the colors of the circuit's most On Sunday, Sept. 30, at the brand-new, sas City, Kan., the faithful proudly circled the thick, concrete walls, RVs from states near multimillion-dollar Kansas Speedway in Kan-

For those who can't make it to the track that precede NASCAR's weekly Winston Cup races are broadcast and analyzed in multi-NASCAR drivers do these days is televised. From qualifying rounds to "happy hour" practice sessions, nearly all of the on-track events there is always the TV. It seems everything

On the last Sunday in September, this task fell to NBC, which began broadcasting races this year as part of a new six year agreement with NASCAR, the governing body for the Winston Cup circuit. According to the agreement, NBC and its cable partner, TNT, have broadcast rights to the second half of each NASCAR season

partner, FX Network, have rights to the first half of each season, and FOX and NBC will alternate coverage of the Daytona 500. NASCAR's premier event. for the next six years. Meanwhile FOX and its cable

partnership is that the networks share a unique production look and style for their NASCAR broadcasts, which are produced by the same staff and talent, no matter which This new contract means more growth and exposure for NASCAR. It also means FOX and NBC, which have never up to speed in a hurry. For its part, NBC teamed up with Turner Sports' TNT cable network, a long-time broadcaster of NASCAR races. Through this one-of-a-kind partnership, the two networks operate as equal partners, splitting production costs 50-50. One of the results of the been huge players in motorsports broadcasting, had to ge

network carries the broadcast.

The NBC/TNT production crew is directed by Mike sport, and built the way it is seen today, says Sam Flood, Wells producer for the NBC/TNT broadcasts. Now we are giving him all of these extra toys to play with. thing you could experience from a director's chair in this Wells, a 20-year veteran of motorsports broadcasts, many of them with ESPN. "Mike has experienced almost every

in various configurations, depending on the week's track design. At the Kansas Speedway, six Sony BVP-900s on track-side scaffolds and roof platforms capture traditional. These toys include approximately 35 cameras, mounted cameras, 10 robotic cameras, including four Sony BVP. 950s mounted on the outside racewall, capture the cars speeding by. (For a more complete look at the cameras wide racing angles. Another four wireless Sony RF handheld cameras deliver live reports from the pit and garage areas. In addition to these manually operated

Cody Holt is managing editor of Video Systems

## The NBC/TNT NASCAR crew was in high gear for the inaugural Winston Cup event at the new Kansas Speedwa

Photo by Sam Sharpe, The Sharpe Image, Cornelius, N.C.

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eras capturing the action around the track, each week trol camera sits just behind the right shoulder of the stick cameras mounted to bumpers. All of the cameras transmit digital images to a then camera truck, and ultitrolled by four operators in 10 Winston Cup cars carry three in-car cameras each. A 360-degree remote-condrivers, with additional lipthe cars' roofs and rear helicopter hovering above the track, which then bounces them to an in-car mately to the main broadcast truck via Triax. Broadcast Sports Technology installs and maintains these cameras, which are con-In addition to the cam-

houses a crew from Sporttual first-down line used in football broadcasts. Sportglobal positioning system (GPS) satellites to track and collect realtime location per second from each car on the track. The Sportvision mated graphics that NBC and TNT call the "Virtual Garage.\* These animations mon racing terms. (For more on Sportvision's vision, the company that Vision in Sports, page 42.) vision's Racef/x system uses information and car performance data several times Racef/x system and the Virtual Garage, see \*A New invented the 1st & Ten vircrew has also produced aniare used to illustrate con

employs approximately 90 microphones. About 18 of the mics are mounted on the track walls in stereo pairs, and each camera — with the exception of the incast truck, audio teams mix and manage effects. Since the rumble of the engines is such an important part of NASCAR, each broadcast In a fifth and final broad-

employed by the production crew at Kansas Speedway. microphones. The crew in see 'Around the Track,' this the audio truck also moniing race teams and their tors the radio communications among the 43 compettions are sometimes added to give a unique, inside-thehelmet perspective to the broadcasts. The audio to two high-end Avid editing systems, where artists create graphic-intensive bumpers and feature segbroadcast truck is also home drivers. These conversa

The entire production broadcast truck, where cate with the 200 or so people involved with each and all of the technology piped into the truck, his job keeps him on the edge of his comes together in the main Wells and Flood communiincluding the three announcers in the broadcast booth. Wells says with all of the action circling the track seat. But he always stays focused on his main goal: weekly NASCAR telecast

A fourth broadcast truck

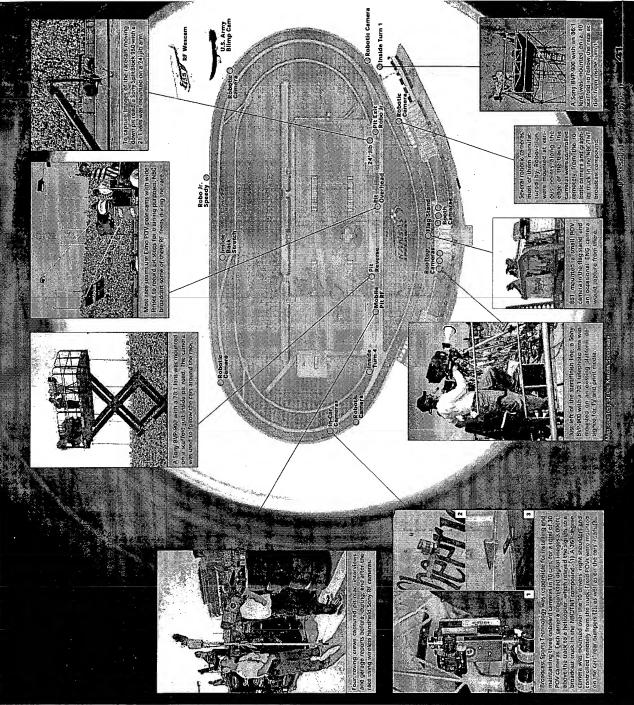
the in-car camera truck.

one main focal point. You can't just follow the ball. ries going on out there on the track, my job is simply ball sports, where there's Plus there's never a true win or lose a race in the There are so many stoto capture as many of them as I can," he says. "It's a lot break in the action unless there's a yellow flag, and even then you'll probably have pit stops, and you can pits. It's a great challenge to tell all of the stories and different than stick-andnot miss any of the action. storytelling.

some of the stories Wells and his team culled from the action during NBC's Sept. 30 NASCAR broadcast Here's a play-by-play at Kansas Speedway:

### Lap 88 of 267

frequently referred to as 'the professor,' uses the former Winston Cup driver Benny Parsons,



term Those to describe a incident a heek of a save. ear's handling. Wells imme To which Parsons adds: deately takes viewers into "And Tim not sure how Mike the Virtual Gange to illus- Wallace had presence of diately takes viewers into the Virtual Garage to illus-trate the point. Inside the drives through a corner on the inside of the track when kicks out and you go straight for the wall. Using animated world created by Sportvision artists, a CG car its back end begins to wiggle. Parsons elaborates in voiceover: "The back end the bank [of the track], you're trying to catch the

feeds are coming from a separate truck in the broad-cast compound operated by right next to him on the outside. Wallace dodges Martin's car and Martin the two cars in 13th place at the time. Wally Dallenbach, NBC's other analyst and of the garage and back to racetrace, as if on cue, Mark Martin's #6 Ford gets loose era in Dale Earnhardt Jr.'s car, which was right behind on the inside of the track with Mike Wallace's #7 car avoids the wall, dropping from 11th place to 18th in the process. After a series of wide-angle replays, Wells also a former Cup driver, adds his perspective on the new angle, pronouncing the dent from the onboard cam-After Wells takes us out calls for a replay of the inci-

Bet of the late 15

mind enough to know that Mark was in trouble. Normally that would be a crash that would take both cars

#### Lap 138

lapsand is running out front when he blows his engine and is suddenly out of the race. Several laps later, 11 terrorist attacks on the United States. During a subsequent caution period. Evernham's comments play NBC/TNT pit reporters, does an interview from the Evernham, the owner of big of a deal in the big picture, and mentions the Sept. terview appears on two Jumbotron screens in the Elliott's #9 Dodge. Evernment, but says it's not that tem while video of the in-The Jumbotron Bill Elliott, looking for his first Winston Cup win in eight years, has led 33 Matt Yocum, one of four garage area with Ray ham expresses disappointover the racetrack's PA sysinfield.

son is the volleyball character from the movie Castaway. Junior said he got lonely during the Southern 500 (Sept. 2 in Darlington, S.C.), so his crew put someone in there to keep him

Lap 153

Inside the main broadcast truck, producer Sam Flood (contand director Mike Wells (far right) mined the various camtigraphics, and audio sources to create a cohesive program.

degree camera pans down to reveal Wilson once again calls for the live onboard accompanying Earnhardt. The camera is controlled by shot in Junior's car, the 360by pit reporter and pre-race host Bill Weber. Weber talks of Earnhardt's win the previous week in Dover. Del., and an unusual passenger in Earnhardt's #8 Chevrolet. once again this week," Weber confirms. "If you're not familiar with the story, Wil-"Yes, Wilson is aboard

a company called Screen-As a wide angle follows
Earnhardt Jr. (often referred to simply as Junior)
forth the filed trunning comfortably under a green flag.
Wells goes to a feature plece

son, Wells jumps to a still shot of a volleyball strapped in Junior's car with a red handprint on it and a mohawk hairdo. As Wells (Continued on page 96) As Weber mentions Wil-



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(Continued from page 42) a joystick in the in-car cam-

Lap 185 era truck.

right in front of Junior. Once again, Earnhardt's action. With oil covering Earnhardt's windshield and quickly to the right to avoid Johnny Benson, running onboard camera catches the obstructing the camera's view, Junior moves his car Benson's car without touchin second, blows his engine ing the wall.

One lap later, an onboard replay from inside Benson's minute gauges in Benson's Sportvision's Racef/x system provides the realtime car includes a lower-third tual Dashboard, which simulates the miles-pergraphic know as a "Virhour and revolutions-perdash as his engine blows. telemetry information.

from the onboard camera.

#### Lap 230

While following action at the front of the pack.
Wells quickly calls for a shot of Earnhardt's #8 car. tor?" a voice asks, but re-ceives no audible reply. There are some tense morest on the track. He then immediately calls for the audio from Earnhardt's in turn 2 and is leaving a trail of fire as it slows to a which has just hit the wall crew: "You all right, Jun-

get into the pits to get it fixed]. When asked how he felt, Junior replies: "That was a helluva hit, but i took it in stride Just like always." vibration a couple of laps [before the crash], 1 just needed another half lap [to respected drivers in motorsports, was killed in a crash. With this memory still fresh in his mind. ments as the in-car camera shows Junior sitting in his car view of a crash until he knows for sure that the one of the most adored and Wells won't call for the indriver's seat motionless. ther, Dale Earnhardt Sr.,

causing the 13th and final caution flag of the day. During the race stoppage, a helicopter is shown flying

wall on the frontstretch

utes later, after Earnhardt is safely out of the car, Wells calls for the shot of the crash leaning in the driver's side window and Junior removes Soon, a member of the his steering wheel and throws it onto the dash in track's safety crew is shown frustration. Several mindriver is uninjured.

Lap 248 In the day's scariest moment, Dale Jarrett's #88 car hits the outside wall in turn 1. Because the wreck hap-

> Visibly relieved, Parsons and Dallenbach speculate shows the chain reaction that occurs under the hood. caused by damage to the of a fuel pump fire. The anithe fuel pump. Parsons says mation depicts a car crash-

With the impact, the car's frame is jarred, causing one of the frame rails to break that the fire coming from the car must have been fuel pump. Wells calls for the Virtual Garage graphic ing into a wall and then the two lines connected to this causes gasoline to spray onto the car's red-hot head-

the outside wall, left quar-

calls for the onboard view from Labonte's car. He then had come to rest. There appears to be no movement After several wide angles of the crash, Wells calls for the onboard view from Jarrett's car after it middle of the track. in the 88 car.

ately lost upon impact, and stopped moving. But Wells doesn't stay on the shot from As a crew of rescue workers try to extricate Jarrett from his mangled car, Wells calls for Jarrett's onboard view of the crash. The video is regained after the car has transmission is immedi-

inside the car very long.

After a couple of commercial breaks, Jarrett is finally shown walking gin-

A few laps later, pole-sitter Jason Leffler hits the gerly to an ambulance on the track. Once again, NBC's three announcers are clearly relieved at the sight ers, which results in a fire what caused him to hit the wall: 'I think we blew a right-front tire. I felt the much like the one under A couple of laps later in the garage, Junior explains

Earnhardt's car

talked about his thought process with regard to the Earnhardt and Jarrett crashes: "We had onboards less we know they're all right. I don't think it's our responsibility to show family members, or even fans, some amazing crashes where aguy will filp a dozen times and then get up and walk away. You can't show that enough. But you have Jarrett to a nearby hospital as a precautionary measure. He was later released. that type of information. The crash is certainly part of racing, but it just depends on the situation as to how After the race, Wells we cover it. There have been of both of those crashes, but there's no way we show that to the viewers at home un to be careful." pened toward the middle of the pack. Wells doesn't get the live shot. Replays show Jarrett was the outside car with two cars to the inside.
Thinking he was clear of
Bobby Labonte's #18 car
immediately to his left. Jarrett moved down the track, clipping the right front fender of the 18 car. ter-panel first. After the impact, Jarrett's car does a This sent Jarrett's car into a 180-degree spin and into

#### Lap 261

With six laps to go in a Winston Cup points race, is in front of the pack. He car lengths ahead of rookie Ryan Newman. As Gordon celebrates his victory by stand, Parsons radios Newman, who is still in his ous driver as he prepares to the trophy for winning the inaugural Winston Cup race race that has taken nearly four hours, Jeff Gordon, the leader in the season-long doing donuts in the grass near the 75,000-seat grandcar on pit road. As Parsons congratulates Newman for his impressive second-place finish; Cordon enters victory lane and Wells calls for sprints to the finish, a few an in-car shot of the victori get out of his car and accept 360 in the opposite direc-tion and settles in the

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